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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/615,491	07/07/2003	Bryan Loomas	BRONNE00600	BRONNE00600 8889	
40518	7590 06/29/2	EXAMINER			
	AGADE HAN LLE	VRETTAKOS, PETER J			
	2483 EAST BAYSHORE ROAD, SUITE 100 PALO ALTO, CA 94303			PAPER NUMBER	
	-,		3739		
			DATE MAILED: 06/29/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.

		<i></i>				
	Application No.	Applicant(s)				
	10/615,491	LOOMAS ET AL.				
Office Action Summary	Examiner	Art Unit				
	Peter J. Vrettakos	3739				
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the	correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING D - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period of Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailine earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATIO 36(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from a, cause the application to become ABANDONE	N. mely filed n the mailing date of this communication. ED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on <u>05 A</u>	<i>pril</i> 2006.					
2a) ☐ This action is FINAL . 2b) ☑ This	This action is FINAL . 2b)⊠ This action is non-final.					
•	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under t	Ex parte Quayle, 1935 C.D. 11, 4	.53 O.G. 213.				
Disposition of Claims						
4)⊠ Claim(s) <u>1-43</u> is/are pending in the application.						
4a) Of the above claim(s) 24-43 is/are withdraw	4a) Of the above claim(s) <u>24-43</u> is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-23</u> is/are rejected.						
•	/) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/o	or election requirement.					
Application Papers						
9)☐ The specification is objected to by the Examine	er.					
10) The drawing(s) filed on is/are: a) acc						
Applicant may not request that any objection to the						
Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the E						
11) I he oath of declaration is objected to by the E	xammer. Note the attached Onic	e Action of John 1 10-152.				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:						
1. Certified copies of the priority documen		tion No				
2. Certified copies of the priority documen3. Copies of the certified copies of the priority						
application from the International Burea		, ou in this realistic stage				
* See the attached detailed Office action for a list		/ed.				
Attachment(s) 1) Notice of References Cited (PTO-892)	4) Interview Summa	ry (PTO-413)				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)						
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date	5) Notice of Informal 6) Other:	Patent Application (P10-152)				
S. Patent and Trademark Office						

DETAILED ACTION

The action is non-final.

Note: independent claim 1 is too brief and broad, and simply claims creating what already occurs in nature: creating a connection (bronchial airways) between an extrapleural airway (trachea) and the lungs. The claim also presupposes that it is appropriate to delineate a bronchial airway as being extrapleural versus intrapleural. A Google search, EAST search and Derwent search of the phrase "extrapleural airway" yields nothing except the Applicant's patent work. A Google Scholar search yields nothing.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1-23 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. The Applicant merely claims what already occurs in nature: creating a connection between the lungs and the trachea (i.e. bronchial airways). Furthermore, the Applicant relies upon a vague definition of what constitutes an extra versus inter pleural airway to obviate rejections. Although the trachea is clearly an extrapleural airway at what point does a bronchial airway (which progresses into increasingly smaller airways as it traverses into the lung) become an intrapleural airway? One cannot say that all bronchi are extrapleural or intrapleural because a

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bronchus can be both. Even more, due to anatomical differences amongst a population can that universal delineation between intra and extrapleural airways even be determined? At this point the Applicant is requiring the Office to provide arguments that ignore this inherent ambiguity involved in categorizing intra versus extrapleural airways, which will lead to prolonged and burdensome prosecution.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-23 are rejected under 35 U.S.C. 103(a) as being unpatentable over Cooper et al. (6,692,494).

Cooper discloses creating connections between an **airway** (an "extrapleural airway" such as the trachea is certainly an airway) and lung tissue as disclosed in col. 9:29-32. Cooper discloses creating connections within the lungs as depicted in figure 1d. The Applicant is now attempting to claim creating connections across the pleura of the lungs in the upper/middle lobe as seen in Application figure 11b (element 200D). Considering the similarities in the two figures, the Office asserts that it would have been obvious to one of ordinary skill in the art to modify Cooper by creating channels not only within the lung, but also across the lung into the trachea, both procedures for improving

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gas flow in patients with compromised pulmonary function. Further, Cooper discloses placing collateral channels in the bronchi in col. 4:22-25, whereas the Applicant argues that an extrapleural airway can be a mainstem bronchus (remarks dated 4-5-06). The Office asserts that a mainstem bronchus is a bronchi and that the bronchi disclosure makes obvious fluidly connected an extrapleural airway and the lung if the position of the bronchi channel is near the point of entry of the lung. Moreover, Cooper discloses making a collateral channel in the upper/middle lobe (col. 4:26-27), which is clearly that seen in the instant Application figure 11b (element 200D). Another issue is the determination of when an airway is considered extrapleural versus intrapleural, already elaborated above. The motivation to create a "transpleural airway" is to simply build upon what is already disclosed by Cooper (to make a collateral channel in the bronchi) as well as to make a collateral channel between an airway and lung tissue (col. 9:29-32)).

Claims 1-23 are rejected under 35 U.S.C. 103(a) as being unpatentable over Keast et al. (6,749,606).

Keast discloses creating connections between an **airway** (an "extrapleural airway" such as the trachea is certainly an airway) and lung tissue as disclosed in col. 8:61-63. Keast discloses creating connections within the lungs as depicted in figure 1d. The Applicant is now attempting to claim creating connections across the pleura of the lungs in the upper/middle lobe as seen in Application figure 11b (element 200D). The Office asserts that it would have been obvious to one of ordinary skill in the art to modify Keast by creating channels not only within the lung, but also across the lung into the

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pulmonary function. Another issue is the determination of when an airway is considered extrapleural versus intrapleural, already elaborated above. The motivation to create a "transpleural airway" is to simply build upon what is already disclosed by Keast (to make a collateral channel in the bronchi) as well as to make a collateral channel between an airway and lung tissue (col. 8:61-63)).

Claims 1-23 are rejected under 35 U.S.C. 103(a) as being unpatentable over Laufer et al. (6,629,951).

Laufer discloses creating connections within the lungs as depicted in figure 1d.

Laufer discloses creating connections between an **airway** (an "extrapleural airway" such as the trachea is certainly an airway) and lung tissue as disclosed in col. 9:30-32. The Applicant is now attempting to claim creating connections across the pleura of the lungs in the upper/middle lobe as seen in Application figure 11b (element 200D). Considering the similarities in the two figures, the Office asserts that it would have been obvious to one of ordinary skill in the art to modify Cooper by creating channels not only within the lung, but also across the lung into the trachea, both procedures for improving gas flow in patients with compromised pulmonary function. Further, Cooper discloses placing collateral channels in the bronchi in col. 4:25-28, whereas the Applicant argues that an extrapleural airway can be a mainstem bronchus (remarks dated 4-5-06). The Office asserts that a mainstem bronchus is a bronchi and that the bronchi disclosure makes obvious fluidly connected an extrapleural airway and the lung if the position of the bronchi channel is near the point of entry of the lung. Moreover, Cooper discloses

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making a collateral channel in the upper/middle lobe (col. 4:26-27), which is clearly that seen in the instant Application figure 11b (element 200D). Another issue is the determination of when an airway is considered extrapleural versus intrapleural, already elaborated above. The motivation to create a "transpleural airway" is to simply build upon what is already disclosed by Laufer (to make a collateral channel in the bronchi) as well as to make a collateral channel between an **airway** and lung tissue (col. 9:30-32)).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Peter J. Vrettakos whose telephone number is 571-272-4775. The examiner can normally be reached on M-F 9-6.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Linda C. Dvorak can be reached on 571-272-4764. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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Pete Vrettakos June 26, 2006

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